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--15. An information recording system for recording information in an optical recording medium comprising:

a driving component for driving the optical recording medium; and

a writing component for forming a visible image pattern by irradiation of light on a recording layer formed in the optical recording medium to generate a change in optical characteristic of said recording layer between a portion where pits are formed with the light and a pit-less portion where pits are not formed.

16. The information recording system according to claim 15, wherein said writing component forms said visible image pattern by generation of a difference in reflectance as said change in optical characteristic between the portion where pits are formed and the pit-less portion through irradiation of the light on the recording layer formed in the optical recording medium.

17. The information recording system according to claim 15, further comprising a data generating component for generating data of the visible image pattern to be formed in the recording layer of the optical recording medium, wherein said writing component modulates the light based on image pattern data generated by said data generating component and irradiates the modulated light on said recording layer.

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18. The information recording system according to claim 17, further comprising an editing component for editing the image pattern data generated by said data generating component.

19. The information recording system according to claim 18, further comprising a reading component for optically reading information already recorded in the recording layer of the optical recording medium, wherein said editing component detects an unrecorded area in the recording layer based on information read by said reading component or reflected light quantity from said optical recording medium and automatically edits the image pattern data generated by said data generating component so that the image pattern matches with said detected unrecorded area.

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20. The information recording system according to claim 18, further comprising a reading component for optically reading information already recorded in the recording layer of the optical recording medium, wherein said editing component automatically edits the image pattern data generated by said data generating component based on a table of contents (TOC) information or ATIP information read by said reading component.

21. The information recording system according to claim 18, wherein said editing component changes a resolution or size of the image pattern data when editing the image pattern data.

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22. The information recording system according to claim 19, wherein said editing component changes a resolution or size of the image pattern data when editing the image pattern data.

23. The information recording system according to claim 20, wherein said editing component changes a resolution or size of the image pattern data when editing the image pattern data.

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24. The information recording system according to claim 19, adapted to compare the size of the image pattern to be generated with the unrecorded area for forming said image pattern and to prohibit formation of the visible image pattern when the unrecorded area is smaller than the size of the image pattern.

25. The information recording system according to claim 19, adapted to compare a width of the visible image pattern to be generated with a width of the unrecorded area for forming the image pattern and to prohibit formation of the visible image pattern when the width of the unrecorded area is smaller than the width of the visible image pattern.

26. The information recording system according to claim 15, wherein said writing component is commonly used for recording of data of the visible image pattern and for recording of recordable data other than the data of the visible image pattern into the recording area of the optical recording medium.

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29. The information recording system according to claim 28, wherein a spot size of the light irradiated on the unrecorded area by said first writing component is made larger than the spot size of the light irradiated on the recording layer by said second writing component.

30. The information recording system according to claim 16, wherein said writing component is adapted to form an image pattern having a plurality of gray scale levels through provision of different sizes of the pits or different distances between adjacent ones of the pits.

Sub B' cont. 31. The information recording system according to claim 15, comprising a display component for displaying a simulation of the visible image pattern based on data of an image pattern edited by said editing component.

32. An information recording apparatus for recording information on an optical recording medium, comprising:

a driving component for driving the optical recording medium, and

A' cont. a writing component for forming a visible image pattern by irradiation of light on a recording layer formed in the optical recording medium to generate a change in optical characteristic of the recording layer between a portion where pits are formed with the light and a pit-less portion where pits are not formed.

33. The information recording apparatus according to claim 32, wherein the visible image pattern is constituted by any of characters, signs, pictorial patterns and a combination of characters, signs, and/or pictorial patterns.

34. The information recording apparatus according to claim 32, wherein the visible image pattern is recorded in an unrecorded area of the optical recording medium.

35. The information recording apparatus according to claim 33, wherein the visible image pattern is recorded in an unrecorded area of the optical recording medium.

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36. The information recording apparatus according to claim 32, wherein the optical recording medium carries information having been recorded therein, and the visible image pattern is recorded in an unrecorded area of the optical recording medium.

37. The information recording apparatus according to claim 33, wherein the optical recording medium carries information having been recorded therein, and the visible image pattern is recorded in an unrecorded area of the optical recording medium.

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38. The information recording apparatus according to claim 32, further comprising a detection component for detecting an unrecorded area of the optical recording medium, wherein the visible image pattern is recorded on the unrecorded area of the optical recording medium based on a result of detection by said detecting component.

39. The information recording apparatus according to claim 33, further comprising a detection component for detecting an unrecorded area of the optical recording medium, wherein the visible image pattern is recorded on the unrecorded area of the optical recording medium based on a result of detection by said detecting component.

40. The information recording apparatus according to claim 34, further comprising a detection component for detecting an unrecorded area of the optical recording medium, wherein the visible image pattern is recorded on the unrecorded area of the optical recording medium based on a result of detection by said detecting component.

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41. The information recording apparatus according to claim 35, further comprising a detection component for detecting an unrecorded area of the optical recording medium, wherein the visible image pattern is recorded on the unrecorded area of the optical recording medium based on a result of detection by said detecting component.

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42. The information recording apparatus according to claim 32, further comprising a display component for displaying a simulation of the visible image pattern based on data of the visible image pattern.

43. The information recording apparatus according to claim 33, further comprising a display component for displaying a simulation of the visible image pattern based on data of the visible image pattern.

44. The information recording apparatus according to claim 34, further comprising a display component for displaying a simulation of the visible image pattern based on data of the visible image pattern.

45. The information recording apparatus according to claim 35, further comprising a display component for displaying a simulation of the visible image pattern based on data of the visible image pattern.

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46. The information recording system according to claim 15, wherein said writing component performs recording with the light on an optical recording medium having a recording layer of a cyanine dye or azo dye.

47. An optical recording medium carrying a program which is readable by a computer provided in an information recording system, wherein the program is an image pattern writing program for forming a visible image pattern on a recording layer formed in said optical recording medium through irradiation of light on the recording layer to generate a change in an optical characteristic of the recording layer between a portion where pits are formed with the light and a pit-less portion where pits are not formed.

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48. An information recording method for recording information in an optical recording medium, comprising the step of:

irradiating light on a recording layer formed in the optical recording medium, whereby forming a visible image pattern through generation of a change in optical characteristic of the recording layer between a portion where pits are formed with the light and a pit-less portion where pits are not formed.

49. The information recording method according to claim 48, wherein said visible image pattern is formed to generate a difference in reflectance on the recording layer formed in the optical recording medium between an area where pits are formed with light and a pit-less area where pits are not formed.



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50. The information recording method according to claim 48, wherein the visible image pattern is formed through editing of data of the visible image pattern, and irradiation of light modulated based on the data of the visible image pattern on the recording layer formed in the optical recording medium.

51. An information recording method according to claim 50, wherein a simulation of the visible image pattern based on the data of the visible image pattern edited through said editing.

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52. The information recording system according to claim 15, wherein said optical recording medium is a recordable optical disc which is readable by a disc player.

53. The information recording apparatus according to claim 32, wherein said optical recording medium is a recordable optical disc which is readable by a disc player.

54. The optical recording medium according to claim 47, wherein said optical recording medium is a recordable optical disc which is readable by a disc player.

55. The information recording method according to claim 48, wherein said optical recording medium is a recordable optical disc which is readable by a disc player.--